

D.C. Findlay, Ph.D

**GEOLOGIST**

524 BROADVIEW AVENUE  
OTTAWA 13, CANADA  
(613) 722-1606

BOX 1029  
WHITEHORSE, YUKON, CANADA

015459

ANVIL (MERCURY-GIANT) RECONNAISSANCE

(Project 70002)

June 22, 1970

for

CYPRUS EXPLORATION CORPORATION LTD.

Whitehorse, Yukon  
5 July, 1970

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GENERAL

A brief helicopter stream-silt sampling program was carried out on June 22, 1970 along a creek draining the area underlain by the central gravity anomaly on the JET claims of MERCURY EXPLORATIONS LTD., located north of Mt. Mye on N.T.S. sheet 105 K/6. The coordinates of the approximate centre of the work area are: 62°24'N, 133°11W.

The total cost of the program was \$751.85.

METHOD AND RESULTS

Duplicate stream silt samples were collected at 12 localities at an average spacing of 1/4 to 1/3 mile along the creek draining the anomaly area. Sampling was extended both upstream and downstream from the anomaly position. Samples were analysed for copper, lead, zinc and molybdenum by hot extraction-atomic absorption technique. One set of samples was analyzed by Barringer Research Limited; the duplicate set by Bondar-Clegg and Company Ltd. Unfortunately, 4 of the Barringer samples were destroyed in a fire in one of their drying ovens. A comparison of analytical results from the two laboratories is as follows:

<u>Sample No.</u>	<u>Bondar Glegg</u>				<u>Barringer</u>			
	<u>Cu</u>	<u>Pb</u> (PPM)	<u>Zn</u>	<u>Mo</u>	<u>Cu</u>	<u>Pb</u> (PPM)	<u>Zn</u>	<u>Mo</u>
1 AS					12	16	83	2
1 BS	11	11	57	ND				
2 AS					16	25	120	2
2 BS	12	12	76	1				
3 AS					22	30	145	2
3 BS	16	15	92	1				
4 AS					sample destroyed			
4 BS	19	18	100	2				
5 AS					sample destroyed			
5 BS	14	16	88	1				
6 AS					sample destroyed			
6 BS	13	12	80	1				
7 AS					sample destroyed			
7 BS	10	13	83	2				
8 AS*					27	27	170	2
8 AS-2 *					20	25	190	2
9 AS					21	26	175	2
9 BS	14	14	95	1				
10 AS					24	26	170	2
10 BS	14	14	97	1				
11 AS					26	25	190	2
11 BS	20	19	161	1				
12 AS					18	25	120	2
12 BS	11	12	73	ND				

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\* Duplicate samples analyzed by Barringer

Allowing for local variations in metal content between A and B samples at each station, the Barringer results show systematically higher values for copper, lead and zinc, and sporadically higher values for molybdenum. The results are further compared in Fig. 2 which shows metal-content profiles for lead, zinc and copper along the approximate northeast-southwest streamflow direction of the creek on which the samples were collected.

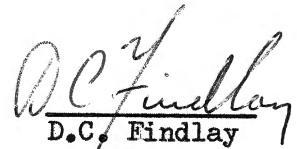
All profiles show a slight but relatively systematic downstream dispersion pattern originating near or slightly upstream from the approximate axis of the gravity anomaly. The downstream dispersion slope is most pronounced in the case of zinc.

All profiles show an inflection point between station 12 and 1. Station 12 is located just downstream from the confluence of the main creek and a tributary draining the area to the north, in part covered by the westernmost JET and TIM claims. <sup>1</sup>

#### CONCLUSIONS

Although the data presented here are too few to be conclusive, the results of this preliminary survey suggest that a slight geochemical dispersion train may extend downstream from the area (s) underlain by the JET claim gravity anomalies. Additional silt sampling should be carried out on other streams <sup>in</sup> drawing the area before a grid geochemical soil survey is conducted.

Whitehorse, Yukon  
July 5, 1970

  
D.C. Findlay

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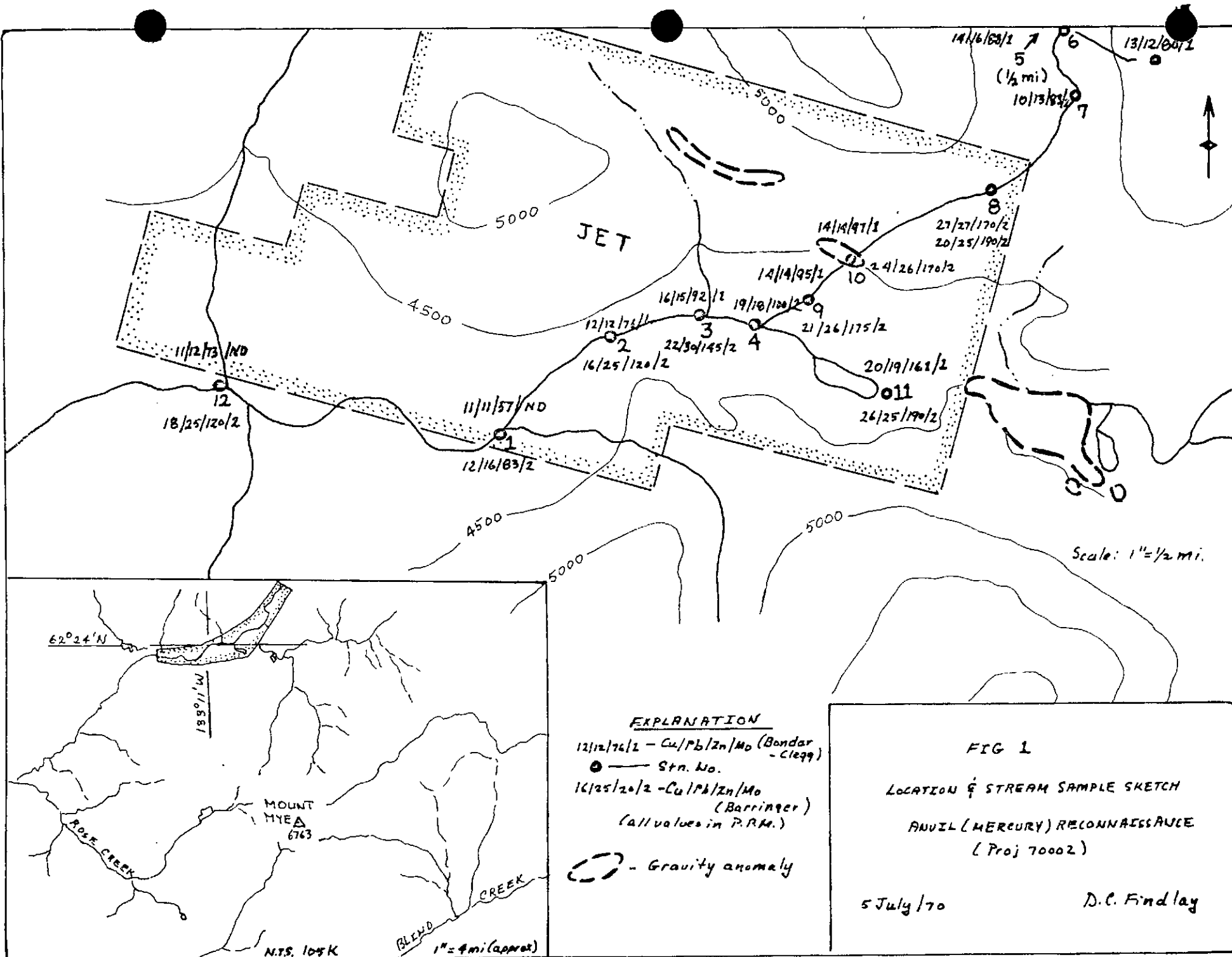
<sup>1</sup> The results from Stn 11 may be significant because the samples were collected from a boggy area immediately east of a small, swampy pond that may be acting as a collector-basin for material carried downslope from the area of the easternmost gravity anomaly. However, the samples here were poor quality (organic-rich) and thus further sampling would be required to test this possibility.

Costs of Anvil (Mercury-Giant) Reconnaissance Program

A. <u>Aircraft Charter</u> (Globe Air Services)		
Whitehorse-Ross River		\$ 115.20
B. <u>Helicopter Charter</u> (United Helicopters Ltd.)		
2.3 hr @ \$130.00 - \$299.00		
fuel 2.3 hr @ 20.00 - 46.00		
	<u>\$345.00</u>	345.00
C. <u>Consulting Fees</u>		
1 day @ \$150.00 - \$150.00		
Expenses B+L+D 7.50		
	<u>\$157.50</u>	157.50
D. <u>Report, drafting etc.</u>		
½ day @ 100.00 - \$ 50.00		
Typing, photocopying 9.50		
	<u>\$ 59.50</u>	59.50
E. <u>Geochemical Analyses</u>		<u>74.65</u>
	Total	\$ 751.85







EXPLANATION

- 12/12/76/2 - Cu/Pb/Zn/Mo (Bondar - Clegg)
- - Str. No.
- 16/25/20/2 - Cu/Pb/Zn/Mo (Barringer)
- (all values in P.P.M.)
- - Gravity anomaly

FIG 1

LOCATION & STREAM SAMPLE SKETCH

ANUL (MERCURY) RECONNAISSANCE  
(Proj 70002)

5 July 70

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62°24'N

183°11'W

MOUNT  
MYEA  
6763

ROSE CREEK

BLEND  
CREEK

N.T.S. 105K

1" = 4 mi (approx)

Fig. 2

COMPARISON OF BONDAR-CLEGG AND BARRINGER Cu, Pb, and Zn PROFILES

